

## MLTI PARTICIPATION PACKET 2009

FOR MORE INFORMATION, PLEASE VISIT:

<http://www.maine.gov/mlti/deployment>



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THIS PACKET CONTAINS:

MLTI Program Description

Student and Staff Eligibility Guidelines

Participation Options

*MLTI Participation Form 2009*

*MLTI Device Order Form 2009*

## MLTI Program Description

### Goals

The MLTI goals remain

- Equity
- Integration with Maine's Learning Results
- Sustainability / Avoiding Obsolescence
- Teacher Preparation and Professional Development
- Economic Development

At a school and classroom level, these goals can be translated into a few more tangible actionable goals: 1) changing teacher practices in ways that leverage technology to facilitate a student-centered learning environment, and 2) active participation in on-going professional development efforts.

### Professional Development

The heart of the MLTI program remains the professional development opportunities that are provided to teachers, administrators, and technical staff. The Department MLTI Project Team will continue to provide direct professional development to support changing teacher practices in ways that leverage technology to facilitate a student-centered learning environment. In addition, the Department will be working with schools to develop ongoing and meaningful collaborations between schools and between educators to examine digital content, particularly Open Education Resources (OER), pedagogy and instructional practices, and the ever-changing landscape of technology tools. By tapping the expertise that exists locally in our teachers, administrators, and technology staff and leveraging local, state, and federal funds, the Department is hoping to reduce our school's dependence on traditional content resources and to move to-



ward using more freely available digital, interactive, and online content. This will require more than simply swapping one content source for another, but a careful examination of how those materials are used, what instructional models are employed, and what technology is introduced to support both the content and the instruction.

The Department is expanding its use of online and distance technology tools including Studywiz, an online virtual learning environment, Adobe Connect, a real-time web conferencing tool, and iTunes U, a repository of recorded audio and video resources,

to provide support and professional development opportunities to more teachers in more schools. Apple, Inc. will be providing direct support and assistance in collaboration with the Department as they have done in the past 7 years. Apple will increase its Maine presence, and dedicate additional resources to support Maine educators.

## Communication and Collaboration

The Studywiz online virtual learning environment will be expanded to accommodate login accounts for all



participating students, teachers, and administrators. Through the use of this system, teachers are able to embed web 2.0 technologies within an safe and managed environment. Teachers can individualize resources and interactions with students providing content, instruction, and feedback to classrooms, small groups, or individuals as appropriate.

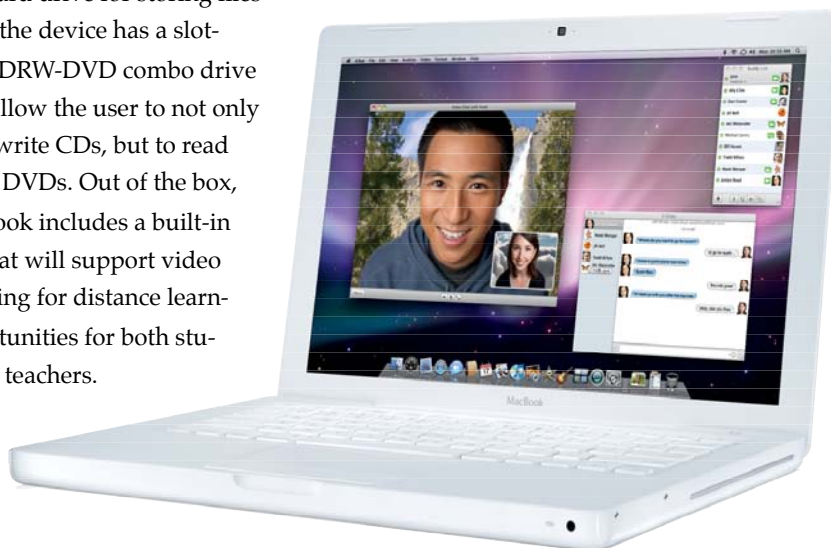
Electronic mail accounts are provided through a partnership with ePals, Inc. (<http://www.maineconnects.net>).



ePals' SchoolMail provides an email environment that includes moderation control, grouping, and world language translation services. In addition, ePals will host blogs for teachers that also include moderation and grouping controls for teachers. ePals' services are also available to any Maine school at any grade range.

## Personal Digital Device

The new MLTI deployment will include the Apple MacBook mobile computer. The MacBook is a fully configured, robust mobile computer that cuts no corners on performance, reliability, and functionality. Featuring a 2.0 Ghz Intel Core 2 Duo chip and 2GB of system RAM, the MacBook will provide the performance necessary to run modern applications and to manage multimedia creation and editing. Along with a 120GB internal hard drive for storing files and data, the device has a slot-loading CDRW-DVD combo drive that will allow the user to not only read and write CDs, but to read and write DVDs. Out of the box, the MacBook includes a built-in camera that will support video conferencing for distance learning opportunities for both students and teachers.



The MacBook will be preloaded with over 30 powerful digital tools that support teaching and learning. Each year, MLTI will provide an updated software image that will include the latest version of the Mac OS operating system and the most current versions of key software applications including NoteShare, iLife, iWork, Google Sketchup Pro, Safari, and Firefox. In addition, the MLTI software image includes out of the box functionality with most digital cameras, digital video cameras, and digital data probes by leading manufacturers, PASCO Scientific and Vernier. For a complete list of technical specifications and software titles, please see Appendix A.

## Wireless Network

All participating schools will have a new wireless infrastructure installed and supported through the MLTI. Through the Department's relationship with Apple, Cisco Inc., and Systems Engineering of Portland, ME will oversee the design and installation of the wireless networks at both the Middle Schools and High Schools. As part of the MLTI expansion, all participating High Schools and CTEs will receive the installation of a custom wireless network. This will include a professional site survey to determine building characteristics and needs as well as necessary hardware to implement the network.



All Apple participating Middle Schools will receive an upgrade to their existing wireless network including new access points and switches and the addition of a new controller module.



The new and upgraded wireless networks will feature Cisco 4402 and 2100 Wireless Network Controllers, Cisco Catalyst 3560 and 2960 Series Switches with Power over Ethernet functionality, and Cisco Aironet 1140 Series Access Points. The networks will be supported by Cisco SMARTnet. Please see Appendix B for more details.

## Warranty and Support

Apple's MLTI support plan will continue in similar fashion as today's program. Each school's spare inventory will be 2% of the first year's deployment. Online tools like the MLTI Asset Manager, DepotWorks, and GSX will remain. Just as before, as batteries lose their ability to hold a reasonable charge, they will be replaced at no additional cost to schools.

The MLTI Local Depot will provide both warranty and non-warranty repairs. All costs related to non-warranty repairs will be the responsibility of the local school.

Each school will be issued 2 administrative copies of Apple Remote Desktop (ARD) to allow technicians to push software updates or make configuration

changes. ARD can also be used to remotely manage computers or gather reports about system configurations and software loads. Remote management tasks can be saved and reused or scheduled so they are performed at off-peak times, or whenever devices are available on the network. Task managers will be installed in High Schools. The existing task managers in Middle Schools will remain in place, and will continue to maintain MLTI support and warranty.

The MLTI Restore solution will continue to be used to reimage devices. New restore mechanisms will be provided to each participating school at a ratio of 1 mechanism per 30 devices deployed with a minimum of 1 restore mechanism.

## Insurance, Replacements, and the Buffer Pool

The Department will continue to provide catastrophic loss insurance protection. This insurance will provide protection should a large-scale disaster occur, and a school loses 25 or more devices in one incident such as a fire, flood, or other major disaster. Incidents of the same nature involving fewer than 25 devices will be covered through the Buffer Pool.

Protection for accidental damage and theft will be provided through the Buffer Pool. The Buffer Pool is located at the MLTI Local Repair Depot, and is managed jointly by the Department and Apple. Schools will

be assigned an allocation of units from the Buffer Pool annually. Allocations will be approximately 7% of each school's total deployment size. This allocation is expected to provide coverage for the entire 4 years. In order to maintain adequate available Buffer Pool inventory, the Buffer Pool will be augmented by retiring from active service units which are no longer needed as a result of enrollment decreases across the State. Replacement units from the Buffer Pool are included in the program, and do not cost any additional funds from the local school.

## Student Eligibility Guidelines

All full or part-time enrolled students at participating public schools in grades 7-12 are eligible to receive an MLTI device. Students who are partially or fully enrolled in a participating school, but receive some or all of their educational services in an alternate facility or program, should be issued a device from their enrolling school.

## Staff Eligibility Guidelines

For participating public 7-12th grade schools, the Department will provide devices to certain eligible staff members in each school. Please review the following guidelines to determine which of your school's staff are eligible to receive an MLTI device. At this time, the Department will not be collecting lists of eligible staff names, but participating schools should be prepared to provide that information at a later date if it becomes necessary for auditing purposes. For staff who are ineligible based on these guidelines, schools may elect to order devices at local cost.

- All certified teachers who teach 7th - 12th grade subjects including, but not limited to, mathematics, science, language arts, social studies, visual and performing arts, world languages, physical education, CTE teachers and/or special education, are eligible to receive an MLTI device.
- All certified 7th - 12th grade principals, CTE directors, special education directors, deans, assistant principals, assistant CTE directors, assistant deans, guidance counselors, librarians, technology integrators, and literacy specialists are eligible to receive an MLTI device.
- At the SAU level, all superintendents, assistant superintendents, and curriculum directors/coordinators are eligible to receive an MLTI device.
- Each participating school may request one additional device for technology support staff image and configuration testing. This device is not intended to be used as a personal workstation.
- Collectively across a SAU, the SAU may request 1 additional device per 300 devices deployed (minimum of 1) for use by technology support staff including a district Technology Director.

Devices allocated for eligible staff may not be redeployed to ineligible staff members. If a school or SAU wishes to expand the program and deploy devices to ineligible staff, the school/SAU should order additional devices on the *Device Order Form 2009* at the \$242 per seat per year cost.

## Participation Options

Participation in the MLTI for Middle Schools and High Schools is optional. Please use the following codes (A-F) on the *MLTI Participation Form 2009* (next page). List all schools with students in grades 7-12 in the SAU. Also list non-7-12 schools participating at local cost. Options and codes for participation are as follows:

### For Middle Schools:

A) **Participate [Code: A]**— this includes 1:1 MLTI device deployment to all eligible staff and all students in grades 7-8, upgraded wireless infrastructure, professional development, Studywiz accounts for all MLTI users, warranty and support of all MLTI equipment, Buffer Pool allocation, and other associated support services. There is no per seat cost to participate.

B) **Decline Participation [Code: B]** — School elects to receive no equipment, professional development, network upgrade or support from the MLTI.

### For High Schools:

C) **Participate [Code: C]**— this includes 1:1 MLTI device deployment to all eligible staff and all students in grades 9-12, new wireless infrastructure, professional development, Studywiz accounts for all MLTI users, warranty and support of all MLTI equipment, Buffer Pool allocation, and other associated support services. There is a \$242 per seat per year cost for student seats only to participate.

D) **Staff Only [Code: D]** — this includes 1:1 MLTI device deployment to all eligible staff, professional development, Studywiz accounts for all MLTI users, warranty and support of all MLTI equipment, Buffer Pool allocation, and other associated support services. No student devices are included in this option. There is no per seat cost to participate.

E) **Decline Participation [Code: E]** — School elects to receive no equipment, professional development, network upgrade or support from the MLTI.

### Additional Options For All Schools and SAUs:

F) **Local 1:1 Expansion [Code: F]** — Schools/SAUs may elect to expand the coverage of the program to include additional grade levels. This includes 1:1 MLTI device deployment to staff and all students in locally funded participating grades, new or upgraded wireless infrastructure\*, professional development, Studywiz accounts for all MLTI users, warranty and support of all MLTI equipment, Buffer Pool allocation, and other associated support services. There is a \$242 per seat per year cost for all seats to participate. \*Costs associated with the installation of the wireless infrastructure will be dealt with on a case-by-case basis.

- **Local Staff Expansion** — Schools/SAUs may elect to expand the coverage of the program to include ineligible staff, or staff at other grade levels. This includes 1:1 MLTI device deployment to all additional staff, professional development, Studywiz accounts for all MLTI users, warranty and support of all MLTI equipment, Buffer Pool allocation, and other associated support services. There is a \$242 per seat per year cost to participate.



## *MLTI Participation Form 2009*

	AS OF MAY 22, 2009	AS OF JULY 1, 2009
SAU Name		
SAU MEDMS ID	4 digits	4 digits

Middle/High School Names	Code (A-E)	School MEDMS ID	Middle/High School Names	Code (A-E)	School MEDMS ID
		4 digits			4 digits
		4 digits			4 digits
		4 digits			4 digits
		4 digits			4 digits

### **SAU Responsibilities**

1. SAU agrees to deploy the MLTI laptop devices in a 1:1 fashion as defined by the Department.
2. SAU agrees to host parent meeting(s) to orient parents on the program, goals, and expectations.
3. SAU agrees to implement student laptop take home policies and procedures by the start of the 2009-2010 school year for Middle Schools and by January 4, 2010 for High Schools.
4. SAU agrees to attend training for and implement an Internet Safety program (i.e. NetSmartz.org).
5. SAU agrees to allow access to the MLTI Communication and Collaboration tools for all teachers.
6. SAU agrees that Principals and/or Superintendents will participate in annual State-sponsored professional development.
7. SAU agrees to support teacher participation in ongoing Professional Development.
8. SAU agrees to take part in studies, surveys, etc. related to the MLTI project.
9. SAU understands that all laptop computer devices are leased by the State of Maine and agrees to maintain the computer equipment in good working order.
10. SAU agrees that it will not install unlicensed software.
11. SAU agrees not to violate the AppleCare warranty and MLTI support program (i.e. repair laptops using unauthorized methods, parts, or providers, alter or modify the installed wireless network for the term of the agreement).
12. SAU agrees to use the MLTI Local Depot or locally employ certified Apple technicians for all repairs of MLTI devices.
13. SAU understands that failing to return defective replacement parts in a reasonable timeframe can result in late fees and parts replacement costs. SAU agrees to pay late fees and replacement costs.
14. SAU agrees to return extra devices as population decreases, and to request additional devices as population increases.
15. SAU agrees to maintain accurate records in the MLTI Asset Manager.

By signing below, we are accepting the responsibilities as outlined above for each school in the SAU with codes A, C, D, or F to participate in the Maine Learning Technology Initiative program for the school year beginning in the Fall of 2009 and ending in the Spring of 2013. Further, we understand that schools with codes B or E will not participate in the program, and therefore will not receive equipment or services through the Maine Learning Technology Initiative.

\_\_\_\_\_  
Superintendent Name (Please Print)

\_\_\_\_\_  
Signature Date

**MAINE LEARNING TECHNOLOGY INITIATIVE**  
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## *MLTI Device Order Form 2009*

Please complete and return a copy of this form for **each participating school** in your SAU to the MLTI Project Office.  
Forms must be received by **12 p.m. May 29, 2009** and FAXed to Laura Brown, **(207) 624-6601** or mailed to:

**MLTI Project Office • Attn: Laura Brown • Maine Department of Education • 23 State House Station •  
Augusta, ME 04333-0023**

**P L E A S E   P R I N T   L E G I B L Y**

1) School Name		2) School MEDMS ID
3) Student Devices K-6 (\$242/seat/yr)	4) Student Devices 7-8	5) Student Devices 9-12 (\$242/seat/yr)
6) Staff Devices K-6 (\$242/seat/yr)	7) Eligible Staff Devices 7-8	8) Staff Devices 9-12
	9) Ineligible Staff Devices 7-8 (\$242/seat/yr)	10) Ineligible Staff Devices 9-12 (\$242/seat/yr)
10) Wireless Network K-6 Do you want to expand the MLTI wireless network to include coverage for K-6 instructional spaces at local cost?  <p style="text-align: center;"><b>YES   NO (circle)</b></p>	11) Wireless Network 7-8 Existing Middle School networks will be upgraded in participating schools. Will this school require new site surveys due to significant changes in building usage or new construction?  <p style="text-align: center;"><b>YES   NO (circle)</b></p> Answering "NO" means that the MLTI Team will use data submitted in 2006 to plan the coverage needed for the network upgrade.	12) Wireless Network 9-12 High Schools participating in 1:1 for grades 9-12 will have a new wireless network installed as part of the program.  Please visit <a href="http://hsassets.mlti.org">http://hsassets.mlti.org</a> and update and submit information in the Contact, Building Information, Room Approval, and Network Information modules.  <p style="text-align: center;"><b>Please submit information online</b></p>
13) Total Devices ordered at \$242/seat/year (3+5+6+9+10)	14) Total Annual Payment (\$242 x Box 13)	15) Payment Plan Option (✓ check)  _____ \$242/seat/year for 4 years _____ \$474/seat/year for 2 years _____ \$928/seat payment due August 30, 2009
<b>Forms for how your SAU may have the Department of Education apply your federal and other funds to make payments will be sent to participating SAUs. Would your SAU like to be invoiced before the end of the fiscal year ending June 30, 2009?</b>  <p style="text-align: center;"><b>YES   NO</b></p>		

I affirm that this information and the information contained on the *MLTI Participation Form 2009* is correct and accurate. I understand that the SAU named in Line 1 will be responsible any annual payments as reflected on Box 14 and Box 15.

\_\_\_\_\_  
Superintendent Name (Please Print)

\_\_\_\_\_  
Signature Date



## Appendix A — Device Specifications and Software

### MacBook mobile computer

#### Dimensions

- Height: 1.08 inches (2.75 cm)
- Width: 12.78 inches (32.5 cm)
- Depth: 8.92 inches (22.7 cm)
- Weight: 5.0 pounds (2.27 kg)

#### Connections and expansion

- MagSafe power port
- Gigabit Ethernet port
- Mini-DVI port
- FireWire 400 port (up to 400 Mbps)
- Two USB 2.0 ports (up to 480 Mbps)
- Audio line in
- Audio line out
- Kensington lock slot

#### Communications

- Built-in AirPort Extreme Wi-Fi wireless networking
- IEEE 802.11a/b/g/n compatible (n - draft specification)
- Built-in Bluetooth 2.1 + EDR (Enhanced Data Rate)
- Built-in 10/100/1000BASE-T Gigabit Ethernet

#### Environmental Status Report

- MacBook is designed with the following features to reduce its environmental impact:
- Highly recyclable polycarbonate enclosure
- Majority of circuit board laminates are free of brominated flame retardants
- Majority of internal cables are PVC-free
- 43% smaller packaging
- Meets ENERGY STAR requirements
- EPEAT Silver rating

#### Display

- 13.3-inch (diagonal) glossy widescreen TFT display with support for millions of colors

#### Graphics and video support

- NVIDIA GeForce 9400M graphics processor with 256MB of DDR2 SDRAM shared with main memory
- Extended desktop and video mirroring: Simultaneously supports full native resolution on the built-in display and up to 1920 by 1200 pixels on an external display, both at millions of colors
- Built-in iSight camera
- Mini-DVI port

#### Video output options

- DVI output using Mini-DVI to DVI Adapter (not included)
- VGA output using Mini-DVI to VGA Adapter (included with Teacher devices)

#### Input

- Built-in full-size keyboard with 78 (U.S.) or 79 (ISO) keys, including 12 function keys and 4 arrow keys (inverted “T” arrangement)
- Solid-state scrolling trackpad for precise cursor control; supports two-finger scrolling, tap, double-tap, and drag capabilities

#### Audio

- Built-in stereo speakers
- Built-in omnidirectional microphone
- Combined optical digital input/analog line in (mini-jack)
- Combined optical digital output/analog line out (mini-jack)

#### Processor and memory

- 2.0 GHz Intel Core 2 Duo processor with 3MB on-chip shared L2 cache running 1:1 with processor speed
- 1066 MHz frontside bus
- 2GB (two 1GB SO-DIMMs) of 667MHz DDR2 SDRAM; two SO-DIMM slots support up to 4GB

#### Storage

- 120GB 5400-rpm Serial ATA hard disk drive
- 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW)
- Maximum write: 8x DVD-R, DVD+R; 4x DVD-R DL (double layer), DVD+R DL (double layer), DVD-RW, DVD+RW; 24x CD-R; 10x CD-RW
- Maximum read: 8x DVD-R, DVD+R, DVD-ROM; 6x DVD-ROM (double layer DVD-9), DVD-R DL (double layer), DVD+R DL (double layer), DVD-RW, and DVD+RW; 24x CD

#### Battery and power

- 55-watt-hour lithium-polymer battery
- 60W MagSafe Power Adapter with cable management system
- MagSafe power port

# MAINE LEARNING TECHNOLOGY INITIATIVE

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The following list of software titles are preloaded onto the MLTI devices. Annually, an updated software image is provided to schools that includes updates to the operating system, iLife, iWork, and most other applications. Software titles listed in **bold** are provided to the MLTI through generous donations by their respective developers.

Software Title	Description
Mac OS 10.5 Leopard	Apple's latest operating system. Each year as available, the MLTI solution will be upgraded to utilize the latest version of the Mac OS.
1to1 Back up	A custom backup utility to help prevent data loss
<b>Acorn</b>	Advance image editor, similar to Adobe Photoshop. Offered to MLTI by Flying Meat <a href="http://flyingmeat.com/acorn/">http://flyingmeat.com/acorn/</a> .
Acrobat Reader	Utility program used to read PDF formatted files.
Address Book	A contact manager that works in conjunction with many other applications including iWork and Mail.
AppleScript Utility	Allow the user to write scripts and macros to facilitate workflows or automate tasks in other applications.
Audio MIDI Setup	Utility to manage musical instruments connected to the computer.
Automator	Allow the user to write scripts and macros to facilitate workflows or automate tasks in other applications.
Bento	A relational database application. <a href="http://www.filemaker.com/products/bento/overview.html">http://www.filemaker.com/products/bento/overview.html</a>
Calculator	A scientific calculator.
ClamXav	Anti-virus software.
Comic Life	A graphic novel creation tool. <a href="http://plasq.com/comiclife">http://plasq.com/comiclife</a>
<b>CyberDuck</b>	An open source, fully featured FTP/SFTP client. Users may use it to upload web pages to web servers and perform other file transfer needs. <a href="http://cyberduck.ch">http://cyberduck.ch</a> . Offered to MLTI by the David Kocher, the creator of CyberDuck.
DataStudio	Data collection and analysis suite. Includes graphing calculator. Compatible with PASCO data probes. <a href="http://www.pasco.com/datastudio/">http://www.pasco.com/datastudio/</a>
Dictionary	New Oxford English Dictionary and Oxford American Writer's Thesaurus.
DVD Player	A DVD disc player.
Firefox	Fast and popular open source web browser. <a href="http://www.mozilla.com/firefox/">http://www.mozilla.com/firefox/</a>
<b>Freemind</b>	A mind-mapping software written in Java. Donated to MLTI by the FreeMind Software Project. <a href="http://freemind.sourceforge.net/wiki/index.php/Main_Page">http://freemind.sourceforge.net/wiki/index.php/Main_Page</a>
GarageBand	Digital recording studio. Record and edit your own music or podcasts. <a href="http://www.apple.com/ilife/garageband/">http://www.apple.com/ilife/garageband/</a>
<b>GeoGebra</b>	Geometry visualization software that allows for both geometric and algebraic input and manipulations. <a href="http://www.geogebra.org/">www.geogebra.org/</a>
<b>Google Earth</b>	Puts a planet's worth of imagery and other geographic information right on your desktop. <a href="http://earth.google.com">http://earth.google.com</a> . Offered to MLTI by Google Inc.
<b>Google SketchUp Pro</b>	3D design software. <a href="http://www.sketchup.com">http://www.sketchup.com</a> . Offered to MLTI by Google Inc.
Grapher	A 2D and 3D graphing calculator as well as an equation editor. <a href="http://www.apple.com/macosx/newfeatures/over200.html">http://www.apple.com/macosx/newfeatures/over200.html</a>
iCal	Calendar and to do list application.
iChat	Text, audio, and video chat software.
iDVD	DVD authoring tool. Part of iLife '09. <a href="http://www.apple.com/ilife/">http://www.apple.com/ilife/</a>
iMovie	Digital movie creation and editing software. Part of iLife '09. <a href="http://www.apple.com/ilife/">http://www.apple.com/ilife/</a>
iPhoto	Digital Photo management, image enhancement, and slideshows. Part of iLife '09. <a href="http://www.apple.com/ilife/">http://www.apple.com/ilife/</a>
iTunes	Digital music management and encoding. <a href="http://www.apple.com/itunes">http://www.apple.com/itunes</a>
iWeb	Web page creation and publishing. Part of iLife '09. <a href="http://www.apple.com/ilife/">http://www.apple.com/ilife/</a>
iWork '09 Keynote	Presentation software, part of Apple's iWork '09 productivity suite. <a href="http://www.apple.com/iwork/keynote/">http://www.apple.com/iwork/keynote/</a>
iWork '09 Numbers	Spreadsheet software: write formulas, organize data, create charts. Part of the Apple iWork '09 productivity suite. <a href="http://www.apple.com/iwork/numbers/">http://www.apple.com/iwork/numbers/</a>

# MAINE LEARNING TECHNOLOGY INITIATIVE

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iWork '09 Pages	Word Processor and Page Layout. This document was created using Pages. <a href="http://www.apple.com/iwork/pages/">http://www.apple.com/iwork/pages/</a>
<b>Logger Pro</b>	Data Collection and analysis suite. Compatible with Vernier data probes. <a href="http://www.vernier.com/">http://www.vernier.com/</a>
Mail	Email Client and RSS reader. Synchronizes with iCal and Address Book. <a href="http://www.apple.com/macosx/features/mail.html">http://www.apple.com/macosx/features/mail.html</a>
<b>Maine Explorer</b>	Inquiry-based science software that supports modeling and simulations. Designed by the Foundation for Blood Research and Maine Teachers, and funded by the National Science Foundation. <a href="http://www.fbr.org/">http://www.fbr.org/</a>
<b>MyWorld GIS</b>	A Geographic Information System for Inquiry-Based Learning. Query, plot and analyze geographic data such as climate, geology, biodiversity, population and more. <a href="http://www.pasco.com/myworld/">http://www.pasco.com/myworld/</a>
NeoOffice	Open source productivity suite. Includes word processing, spreadsheets, presentations, drawing, and database applications. <a href="http://www.neooffice.org">http://www.neooffice.org</a>
<b>NetLogo</b>	Programmable modeling environment for simulating natural and social phenomena. It is particularly well suited for modeling complex systems developing over time. <a href="http://ccl.northwestern.edu/netlogo/">http://ccl.northwestern.edu/netlogo/</a>
NoteShare	Collaborative Multimedia Digital Notebook. Create, organize, share, publish. <a href="http://www.aquaminds.com">http://www.aquaminds.com</a>
<b>OmniFocus</b>	A professional task management tool that integrates well with iCal and Mail. <a href="http://www.omnigroup.com/applications/omnifocus/">http://www.omnigroup.com/applications/omnifocus/</a>
<b>OmniGraffle</b>	Create diagrams, process charts, quick page-layouts, website mockups or graphic design. <a href="http://www.omnigroup.com/applications/omnigraffle/">http://www.omnigroup.com/applications/omnigraffle/</a>
<b>OmniGraphSketcher</b>	Combines the data plotting power of charting applications with the ease of a basic drawing program. <a href="http://www.omnigroup.com/applications/omnigraphsketcher/">http://www.omnigroup.com/applications/omnigraphsketcher/</a>
<b>OmniOutliner</b>	A flexible program for creating, collecting, and organizing information. <a href="http://www.omnigroup.com/applications/omnioutliner/">http://www.omnigroup.com/applications/omnioutliner/</a>
<b>OmniWeb</b>	Fast and popular web browser. <a href="http://www.omnigroup.com/applications/omniweb/">http://www.omnigroup.com/applications/omniweb/</a>
<b>OmniDazzle</b>	A set of fun and useful enhancements that help you highlight certain areas of your screen, create visual effects, and track the location of your mouse pointer. <a href="http://www.omnigroup.com/applications/omnidazzle/">http://www.omnigroup.com/applications/omnidazzle/</a>
<b>OmniDictionary</b>	A Mac OS X client for network dictionary servers. Lookup words from multiple dictionaries and applications. <a href="http://www.omnigroup.com/applications/omnidictionary/">http://www.omnigroup.com/applications/omnidictionary/</a>
Photo Booth	Camera application for capturing still images and video, using the built in iSight camera. <a href="http://www.apple.com/findouthow/mac/">http://www.apple.com/findouthow/mac/</a>
Preview	Multi-file format viewer (.pdf, .jpg, .gif, .png, .psd, and more). <a href="http://support.apple.com/kb/HT2506">http://support.apple.com/kb/HT2506</a>
<b>ProfCast</b>	An all-in-one Podcast production tool. <a href="http://www.profcast.com/">http://www.profcast.com/</a>
QuickTime Player	Digital media viewer application. <a href="http://www.apple.com/quicktime/">http://www.apple.com/quicktime/</a>
Safari	Web browser with RSS feed management. <a href="http://www.apple.com/macosx/features/safari.html">http://www.apple.com/macosx/features/safari.html</a>
TextEdit	Text editor capable of reading and writing text (.txt), rich text format (.rtf), and Microsoft Word (.doc and .docx) formatted files. <a href="http://support.apple.com/kb/HT2523">http://support.apple.com/kb/HT2523</a>
Time Machine	A backup utility to help prevent data loss. Part of the Mac OS X. <a href="http://www.apple.com/macosx/features/timemachine.html">http://www.apple.com/macosx/features/timemachine.html</a>
Voice Over Utility	Configuration tool with built-in screen reader for visually impaired users. Part of the Mac OS X. <a href="http://www.apple.com/accessibility/voiceover/">http://www.apple.com/accessibility/voiceover/</a>

## Appendix B — Wireless Network Infrastructure

The Apple Project Office in Maine in conjunction with Cisco Inc., and Systems Engineering of Portland, ME will oversee the design and installation of the wireless networks at both the Middle Schools and High Schools. As part of the MLTI expansion, all Apple participating High Schools will receive the installation of a custom wireless network. This will include a professional site survey to determine building characteristics and needs as well as necessary hardware to implement the network.



All Apple participating Middle Schools will receive an upgrade to their existing wireless network including new access points and switches and the addition of a new controller module.



Details of the Cisco wireless networking hardware used in the expansion are described below:



### Wireless Access Points

Cisco Aironet 1140 Series Access Points.  
802.11n performance with 2.4MHz and 5GHz radios supporting wireless B/G/N and with standard 802.3af Power over Ethernet (PoE).



### Wireless Network Controllers

Cisco 4402 and 2100 Wireless LAN Controllers.  
Centralize and automate Wireless LAN configuration, management. Provides cost-effective method of scaling system.



### Wireless Network Switches

Cisco Catalyst 3560 and 2960 Series Switches.  
Fixed configuration, enterprise-class switches that include Power over Ethernet functionality.



### Wireless Network Support

Cisco SMARTnet support for Wireless LAN Controllers.  
Award-winning technical support services, OS updates, parts replacement, on-site support.